IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Ashley J. Birkett) PATENT
Serial No.:	09/930,915) Attorney Docker) ICC-102.2
Filed:	August 15, 2001) 4564-81175
For:	Immunogenic HBc Chimer Particles Having Enhanced Stability)) Group Art Unit) 1614)
Examiner:)

INFORMATION DISCLOSURE STATEMENT

BOX IDS Commissioner For Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, Documents A1-A71 are listed on the attached Form PTO-1449. Documents A1-A5 and A15-A31 were disclosed and discussed in the text of the subject patent application. Document A13 is the published PCT application corresponding to the present application.

Document A14 is the published PCT application of a related invention by the present inventor, Application Serial No. 09/931,325 filed August 15,2001, and Documents A6-A8 and A32-65 were disclosed and discussed in that related pending application by the inventor. Document A6, an issued U.S. patent, and Document A11, its published PCT counterpart,

describe an invention of the present inventor that relates to a hepatitis B core-based vaccine. Documents A9, A12, A66-67 and A71 were located subsequent to the filing of this application, and thought to possibly be material because of their subject matter, and are therefore provided herewith. Document A68 is a poster presented by the inventor and co-workers in October of 1999 of results using vaccine candidates.

None of these cited documents disclose, enable or teach claimed subject matter of the present invention.

No inferences should be drawn that the attached list represents a comprehensive investigation, or that any material disclosed is equivalent to the subject invention.

The cited documents disclose numerous specific features. There has been no attempt to list each and every feature disclosed by each document. The Examiner is requested to review the documents and determine the extent of the materiality of the document disclosures with respect to the present invention.

The discussion of any art and the citation of any document herein is not to be construed as an admission that the art or document disclosure is necessarily within the invention

field of endeavor, that the art or document disclosure is necessarily prior in time to a particular date which may be relevant to the instant patent application, and/or that the art or document disclosure is otherwise necessarily prior art as defined by the patent law with respect to the instant invention and application.

Also, there is reserved the right to later set forth how the instant invention is distinguished over the disclosure of any document or other art, including the disclosures of the art and documents recited herein, that may be cited by the Examiner in rejecting a claim in the instant patent application.

The recitation herein of the art and documents is not to be construed as an assertion that more pertinent art could not possibly be in existence.

If any fees or petition are believed to be necessary, please charge our Deposit Account No. 23-0920, and deem this paper to be the required petition.

Respectfully submitted,

By M. Leninger

Irene M. Reininger, Reg No. 48,439

December 10, 2002

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								Sheet 1	of 3
(Rev. 5/92) Comparable to Form PTO-144	9	U	S. Department of Patent and Trad		Atty. Docket No. ICC-102.1 (4564-81175)		Serial No. 09/931,315		
		MATION DISCLOSURE CITATION			Applicants				
	(Use several sheets if necessary)				Ashley J. Birkett				
·			Filing Date August 15, 2001		Group				
	_			U.S. PATEN	IT DOCUMENTS				
*Examiner Initial		Document Number	Date		Name	Class	Subclass		g Date ropriate
	Aì	4,818,527	04/1989	Thornton, et	al.	424	88		
-	A2	4,882,145	11/1989	Thornton, et	al.	424	88		
	A3	5,143,726	09/1992	Thornton, et	al.	424	88		
	A4	5,928,902	07/1999	DeWilde, et	al.	435	69.3		
	A5	5,990,085	11/1999	ireland, et al					_
	A6	6,231,864	5/2001	Birkett		424	189.1		
	A7	5,614,194	3/1997	Colman, et l	a.	424	191.1		
	A8	4,886,782	12/1989	Good, et al.		514	12		
-			F	OREIGN PAT	ENT DOCUMENTS				
	•					Tran	slation		
		Document Number	Date		Country	Class	Subclass	Yes	No
	А9	WO 01/98333	12/27/01	PCT					
	A10	WO 99/40934	8/19/99	PCT					
	A11	WO 00/32625	6/8/2000	РСТ					
	A12	WO 01/27281	4/19/2001	PCT					
	A13	WO 02/14478	2/21/2002	PCT					
	A14	WO 02/13765	2/21/2002	PCT		<u> </u>			
		ОТН	ER DOCUMEN	TS (Including	Author, Title, Date, Pertinent Page	es, Etc.)			
	A15	Schodel et al., J. Exp. Med. (1994) 180(3): p. 1037-46							
	A16								
	A17								
	A18	Hoffman et al., Nat. Med. (1997) 3(1):80-83							
	A19	Conway et al., Nature, (1997) 386:91-94							
	A20	Bottcher et al., Nature, (1997) 386:88-91							

Examiner

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A21 A22

A23

Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Date Considered

Zheng et al., J. Biol. Chem., (1992) 267(13):9422-9429

Birnbaum et al., J. Virol. (1990) 64, 3319-3330

(Rev. 5/92) U.S. Department of Commerce Atty. Docket No. Serial No. Patent and Trademark Office ICC-102.1 Comparable to 09/931,315 Form PTO-1449 (4564-81175) INFORMATION DISCLOSURE CITATION **Applicants** (Use several sheets if necessary) Ashley J. Birkett Filing Date Group August 25, 2001 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) A24 Gallina et al. J. Virol. (1989) 63:4645-4652 A25 Inada et al. Virus Res., (1989) 14:27-48 A26 Maassen et al. Arch. Virol. (1994) 135:131-142 A27 Schodel et al. Infect. Immunol. (1994) 62:1669-1676 A28 Ulrich et al. Adv. Virus Res. Vol. 50 (1998) Academic Press pages 141-182 A29 Zlotnick et al. (1997) Proc. Nat'l. Acad. Sci., USA, 94:9556-9661 A30 Nierynck et al. (Oct. 1999) Nature Med., 5(10):1157-1163 A31 Kratz et al. (1999) Proc. Natl. Acad. Sci., USA, 96:1915-1920 A32 Marlar, T., et al., Trans. R. Soc. Trop. Med. Hyg., (1995) 89(3): p. 307-308 A33 Garg et al., Trans. R. Soc Trop. Med. Hyg., (1995) 89(6): p. 656-657 A34 Baird et al., Am. J. Trop. Med. Hyg., (1991) 44(5): p. 547-552 A35 Baird et al., Trans R Soc Trop Med Hyg, (1996) 90(4): p. 409-411 A36 Baird et al., J. Infect. Dis., (1995) 171(6): p. 1678-1682 A37 Murphy et al., Lancet, (1993) 341(8837): p. 96-100 A38 Schwartz et al., [letter]. N. Engl. J. Med., (1991) 324(13): p. 927 A39 Rieckmann et al., Lancet, (1989) 2(8673): p. 1183-1184 A40 Charoenlarp et al., Southeast Asian J. Trop. Med. Public Health, (1973) 4(1): p. 135-137 A41 Krotoski, [letter]. N. Engl. J. Med., (1980) 303(10): p. 587 A42 Schuurkamp et al., Trans. R. Soc. Trop. Med. Hyg., (1992) 86(2): p. 121-122 A43 Good, et al., Annu. Rev. Immunol., (1998) 16: p. 57-87 A44 Clyde et al., Am. J. Med. Sci., (1973) 266(6): p. 398-403 A45 Rieckmann et al., Trans. R. Soc. Trop. Med. Hyg., (1974) 68(3): p. 258-259 A46 Zavala et al., Science, (1985) 228(4706): p. 1436-40 A47 Nussenzweig et al., Ciba Found. Symp., (1986) 119: p. 150-163 A48 Etlinger et al., Immunology, (1988) 64(3): p. 551-558 A49 Etlinger et al., J. Immunol., (1988) 140(2): p. 626-633 A50 Herrington et al., Nature, (1987) 328(6127): p. 257-259 Examiner Date Considered Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not *Examiner: considered. Include copy of this form with next communication to applicant.

(Rev. 5/92) Comparable to Form PTO-1449			Atty. Docket No. ICC-102.1 (4564-81175)	Serial No. 09/931,3155			
	INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicants Ashley J. Birkett				
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		OTHER DOCUMENTS (Including	Author, Title, Date, Pertinent Pages, Etc.)				
	A51	Ballou et al., Lancet, (1987) 1(8545): p. 12	?77-1281				
	A52	Good et al., Science, (1987) 235(4792): p. 1059-62					
	A53	Calvo-Calle et al., J. Immunol., (1993) 150	D(4): p. 1403-1412				
	A54	Moreno et al., Int. Immunol., (1991) 3(10):	: p. 997-1003				
	A55	Stoute et al., N. Engl. J. Med., (1997) 336(2): p. 86-91					
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	A63	Hoffman et al. Malaria Vaccine Development, Chapter 3: Attacking the Infected Hepatocyte, 1996 American Society for Microbiology, Washington, D.C., pp. 35-75					
	A64	Calvo-Calle et al. J. Immunol. (1997) 159(3): p. 1362-1373					
	A65	Coatney et al. (1962) 9:290-293					
	A66	Krüger et al. Biol. Chem. (1999) 380:275-276					
	A67	Nardin et al. J. Exp. Med. (1982) 156:20-30					
-	A68	Poster presented by J. Haron at the Center for Advanced Technology and Medicine (CABM) Symposium, Rutgers University Medical Center on October 13-14, 1999					
	A69	Isaguliants et al. Immunol. Ltr. (1994) 42:173-178					
	A70	Schodel et al. J. Biotechnol. (1996) 44:91-96					
	A71	Wynne et al., Mol. Cell (June 1999) 3:771-780					
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